October 4, 2004 Case No.: GB 000003 (7790/336)

> Serial No.: 09/631,353 Filed: August 2, 2000

Page 25 of 32

#### **CLAIMS APPENDIX**

- A radio communication system, comprising:
  - a primary station,
  - a secondary station,
- a random access channel for the transmission of data from the secondary station to the primary station;

wherein the secondary station includes means for requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource;

wherein the primary station includes means for transmitting a response to the request;

wherein the secondary station includes means for subsequently transmitting a contention resolution signal encoded with a second signature; and

wherein the primary station includes means for transmitting a further response to the contention resolution signal, means for selecting a random access channel to which the secondary station will be granted access, and means for transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses

2. The system as claimed in claim 1, wherein the random access channel is adapted for transmission of data in packets.

Case No.: GB 000003 (7790/336) Serial No : 09/631,353

Filed. August 2, 2000

Page 26 of 32

3. A primary station for use in a radio communication system including a random access channel for the transmission of data from a secondary station to the primary station, the primary station comprising:

means for transmitting a response to a request from the secondary station for access to a random access channel resource, wherein the request includes transmission of a signal encoded with a first signature;

means for transmitting a further response to a subsequent contention resolution signal encoded with a second signature transmitted by the secondary station;

means for selecting a random access channel to which the secondary station will be granted access; and

means for transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

- The primary station as claimed in claim 3, further comprising:

  means for transmitting a further response to a further contention resolution signal transmitted by the secondary station.
- 5. The primary station as claimed in claim 3, further comprising:
  means for transmitting the channel allocation signal at the same time as each of
  the responses.

October 4, 2004 Case No. GB 000003 (7790/336)

Serial No.: 09/631,353 Filed: August 2, 2000 Page 27 of 32

- The primary station as claimed in claim 3, further comprising:

  means for subdividing the channel allocation signal into a plurality of portions;

  and
- means for transmitting each of the portions at the same time as a respective one of the responses.
- 7 The primary station as claimed in claim 3, further comprising:
  means for including the channel allocation signal as part of the or each response
- 8. The primary station as claimed in claim 3, further comprising.

  means for transmitting a random access channel status message indicating the highest data rate available on the random access channel.

October 4, 2004 Case No.: GB 000003 (7790/336)

> Serial No : 09/631,353 Filed: August 2, 2000

Page 28 of 32

9 A secondary station for use in a radio communication system including a random access channel for the transmission of data to a primary station, the secondary station comprising:

means for requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource;

means for receiving a response from the primary station and subsequently transmitting a contention resolution signal encoded with a second signature;

means for receiving a further response from the primary station; and means for determining which channel has been allocated from a channel allocation signal transmitted by the primary station at the same time as at least one of the responses.

The secondary station as claimed in claim 9, further comprising:

means for receiving from the primary station a random access channel status

message indicating the availability of random access channel resources; and

means for using the status message as a check on the channel allocation signal

before initial transmission of data.

Case No. GB 000003 (7790/336)

Serial No : 09/631,353 Filed, August 2, 2000

Page 29 of 32

11. A method of operating a radio communication system including a random access channel for the transmission of data from a secondary station to a primary station, the method comprising:

the secondary station requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource,

the primary station transmitting a response to the request;

the secondary station subsequently transmitting a contention resolution signal encoded with a second signature;

the primary station transmitting a further response to the contention resolution signal;

the primary station selecting a random access channel to which the secondary station will be granted access; and

the primary station transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

12. The method as claimed in claim 11, further comprising:

the secondary station transmitting a further contention resolution signal and the primary station transmitting a further response.

Case No.: GB 000003 (7790/336)

Serial No.: 09/631,353 Filed: August 2, 2000

Page 30 of 32

13. The method as claimed in claim 11, further comprising:

the primary station transmitting the channel allocation signal at the same time as each of the responses

14. The method as claimed in claim 11, further comprising:

the primary station subdividing the channel allocation signaling into a plurality of portions, and

the primary station transmitting each of the portions at the same time as a respective one of the responses.

15. The method as claimed in claim 11, further comprising:

the primary station including the allocation signaling as part of the or each response.

16. The method as claimed in claim 11, further comprising:

the primary station transmitting a random access channel status message indicating the highest data rate available on the random access channel

Case No.: GB 000003 (7790/336)

Serial No : 09/631,353 Filed: August 2, 2000

Page 31 of 32

#### **EVIDENCE APPENDIX**

None.

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October 4, 2004

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Case No.: GB 000003 (7790/336)

Serial No., 09/631,353 Filed: August 2, 2000

Page 32 of 32

# RELATED PROCEEDINGS APPENDIX

None.

October 4, 2004 Case No., GB 000003 (7790/336)

Senal No.: 09/631,353 Filed: August 2, 2000

Page 25 of 32

#### CLAIMS APPENDIX

- A radio communication system, comprising:
  - a primary station;
  - a secondary station,
- a random access channel for the transmission of data from the secondary station to the primary station;

wherein the secondary station includes means for requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource;

wherein the primary station includes means for transmitting a response to the request;

wherein the secondary station includes means for subsequently transmitting a contention resolution signal encoded with a second signature; and

wherein the primary station includes means for transmitting a further response to the contention resolution signal, means for selecting a random access channel to which the secondary station will be granted access, and means for transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

2. The system as claimed in claim 1, wherein the random access channel is adapted for transmission of data in packets

Case No GB 000003 (7790/336) Serial No.: 09/631,353

Filed: August 2, 2000 Page 26 of 32

3. A primary station for use in a radio communication system including a random access channel for the transmission of data from a secondary station to the primary station, the primary station comprising:

means for transmitting a response to a request from the secondary station for access to a random access channel resource, wherein the request includes transmission of a signal encoded with a first signature;

means for transmitting a further response to a subsequent contention resolution signal encoded with a second signature transmitted by the secondary station;

means for selecting a random access channel to which the secondary station will be granted access, and

means for transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

- The primary station as claimed in claim 3, further comprising means for transmitting a further response to a further contention resolution signal transmitted by the secondary station.
- 5. The primary station as claimed in claim 3, further comprising:
  means for transmitting the channel allocation signal at the same time as each of the responses.

October 4, 2004 Case No.: GB 000003 (7790/336) Serial No : 09/631,353 Filed August 2, 2000

Page 27 of 32

6. The primary station as claimed in claim 3, further comprising:

means for subdividing the channel allocation signal into a plurality of portions,

and

means for transmitting each of the portions at the same time as a respective one of the responses

- 7. The primary station as claimed in claim 3, further comprising:
  means for including the channel allocation signal as part of the or each response.
- The primary station as claimed in claim 3, further comprising:

  means for transmitting a random access channel status message indicating the highest data rate available on the random access channel.

Case No.: GB 000003 (7790/336)

Serial No.: 09/631,353 Filed: August 2, 2000

Page 28 of 32

A secondary station for use in a radio communication system including a random access channel for the transmission of data to a primary station, the secondary station comprising.

means for requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource,

means for receiving a response from the primary station and subsequently transmitting a contention resolution signal encoded with a second signature;

means for receiving a further response from the primary station; and means for determining which channel has been allocated from a channel allocation signal transmitted by the primary station at the same time as at least one of the responses

10. The secondary station as claimed in claim 9, further comprising means for receiving from the primary station a random access channel status message indicating the availability of random access channel resources; and means for using the status message as a check on the channel allocation signal before initial transmission of data.

October 4, 2004 Case No. GB 000003 (7790/336) Serial No., 09/631,353 Filed: August 2, 2000 Page 29 of 32

A method of operating a radio communication system including a random access channel for the transmission of data from a secondary station to a primary station, the method comprising

the secondary station requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource;

the primary station transmitting a response to the request;

the secondary station subsequently transmitting a contention resolution signal encoded with a second signature;

the primary station transmitting a further response to the contention resolution signal;

the primary station selecting a random access channel to which the secondary station will be granted access, and

the primary station transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses

12. The method as claimed in claim 11, further comprising:

the secondary station transmitting a further contention resolution signal and the primary station transmitting a further response.

October 4, 2004 Case No.: GB 000003 (7790/336) Serial No : 09/631,353 Filed August 2, 2000 Page 30 of 32

- The method as claimed in claim 11, further comprising:

  the primary station transmitting the channel allocation signal at the same time as each of the responses.
- 14. The method as claimed in claim 11, further comprising:

  the primary station subdividing the channel allocation signaling into a plurality of portions, and

the primary station transmitting each of the portions at the same time as a respective one of the responses

- The method as claimed in claim 11, further comprising:
  the primary station including the allocation signaling as part of the or each response.
- 16. The method as claimed in claim 11, further comprising:
  the primary station transmitting a random access channel status message
  indicating the highest data rate available on the random access channel

October 4, 2004 Case No. GB 000003 (7790/336) Serial No., 09/631,353 Filed: August 2, 2000 Page 31 of 32

### EVIDENCE APPENDIX

None.

Case No.: GB 000003 (7790/336)

Serial No.: 09/631,353 Filed August 2, 2000 Page 32 of 32

### RELATED PROCEEDINGS APPENDIX

None

October 4, 2004 Case No.: GB 000003 (7790/336)

Serial No.: 09/631,353 Filed: August 2, 2000

Page 25 or 32

#### **CLAIMS APPENDIX**

- 1. A radio communication system, comprising:
  - a primary station,
  - a secondary station;
- a random access channel for the transmission of data from the secondary station; to the primary station;
- wherein the secondary station includes means for requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource,
- wherein the primary station includes means for transmitting a response to the request;

wherein the secondary station includes means for subsequently transmitting a contention resolution signal encoded with a second signature; and

wherein the primary station includes means for transmitting a further response to the contention resolution signal, means for selecting a random access channel to which the secondary station will be granted access, and means for transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

The system as claimed in claim 1, wherein the random access channel is adapted for transmission of data in packets

October 4, 2004 Case No.: GB 000003 (7790/336)

Serial No.: 09/631,353 Filed August 2, 2000 Page 26 of 32

3. A primary station for use in a radio communication system including a random access channel for the transmission of data from a secondary station to the primary station, the primary station comprising.

means for transmitting a response to a request from the secondary station for access to a random access channel resource, wherein the request includes transmission of a signal encoded with a first signature;

means for transmitting a further response to a subsequent contention resolution signal encoded with a second signature transmitted by the secondary station,

means for selecting a random access channel to which the secondary station will be granted access; and

means for transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

- The primary station as claimed in claim 3, further comprising.

  means for transmitting a further response to a further contention resolution signal transmitted by the secondary station.
- 5. The primary station as claimed in claim 3, further comprising:
  means for transmitting the channel allocation signal at the same time as each of the responses.

the responses.

October 4, 2004
Case No GB 000003 (7790/336)
Serial No 09/631,353
Filed: August 2, 2000
Page 27 of 32

- 6. The primary station as claimed in claim 3, further comprising, means for subdividing the channel allocation signal into a plurality of portions; and means for transmitting each of the portions at the same time as a respective one of
- 7. The primary station as claimed in claim 3, further comprising means for including the channel allocation signal as part of the or each response.
- 8. The primary station as claimed in claim 3, further comprising: means for transmitting a random access channel status message indicating the highest data rate available on the random access channel.

October 4, 2004 Case No. GB 000003 (7790/336) Serial No. 09/631,353 Filed. August 2, 2000 Page 28 of 32

9. A secondary station for use in a radio communication system including a random access channel for the transmission of data to a primary station, the secondary station comprising.

means for requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource;

means for receiving a response from the primary station and subsequently transmitting a contention resolution signal encoded with a second signature; means for receiving a further response from the primary station; and means for determining which channel has been allocated from a channel allocation signal transmitted by the primary station at the same time as at least one of the

responses.

10. The secondary station as claimed in claim 9, further comprising:

means for receiving from the primary station a random access channel status

niessage indicating the availability of raidom access channel resources; and

means for using the status message as a check on the channel allocation signal

before initial transmission of data.

October 4, 2004 Case No GB 000003 (7790/336) Serial No 09/631,353 Filed: August 2, 2000

Page 29 of 32

11. A method of operating a radio communication system including a random access channel for the transmission of data from a secondary station to a primary station, the method comprising:

the secondary station requesting access to a random access channel resource by transmitting a signal encoded with a first signature corresponding to the resource;

the primary station transmitting a response to the request;

the secondary station subsequently transmitting a contention resolution signal encoded with a second signature,

the primary station transmitting a further response to the contention resolution signal,

the primary station selecting a random access channel to which the secondary station will be granted access; and

the primary station transmitting a channel allocation signal identifying this channel at the same time as at least one of the responses.

12 The method as claimed in claim 11, further comprising.

the secondary station transmitting a further contention resolution signal and the primary station transmitting a further response

October 4, 2004 Case No GB 000003 (7790/336) Serial No 09/631 353 Filed: August 2, 2000

Page 30 of 32

13. The method as claimed in claim 11, further comprising:

the primary station transmitting the channel allocation signal at the same time as each of the responses.

14 The method as claimed in claim 11, further comprising:

the primary station subdividing the channel allocation signaling into a plurality of portions; and

the primary station transmitting each of the portions at the same time as a respective one of the responses

- 15. The method as claimed in claim 11, further comprising:
- the primary station including the allocation signaling as part of the or each response.
- 16. The method as claimed in claim 11, further comprising:

the primary station transmitting a random access channel status message indicating the highest data rate available on the random access channel.

Case No.: GB 000003 (7790/336)

Serial No.: 09/631,353 Filed August 2, 2000 Page 31 of 32

### **EVIDENCE APPENDIX**

None

October 4, 2004 Case No : GB 000003 (7790/336) Serial No 09/631,353 Filed: August 2, 2000 Page 32 of 32

## RELATED PROCEEDINGS APPENDIX

None.